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Claims:

1. A film of a polyethylene produced by polymerization catalysed by a single site catalyst and comprising as  
5 comonomers to ethylene at least two C<sub>4-12</sub> alpha olefins.
2. A film as claimed in claim 1 wherein said comonomers are selected from but-1-ene, hex-1-ene, 4-methyl-pent-1-ene, hept-1-ene, oct-1-ene and dec-1-ene.  
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3. A film as claimed in claim 2 wherein said comonomers are but-1-ene and hex-1-ene.
4. A film as claimed in any one of claims 1 to 3  
15 wherein said polyethylene is a bimodal polyethylene wherein the lower molecular weight component constitutes from 30 to 70% wt of the polyethylene.
5. A film as claimed in any one of claims 1 to 4  
20 wherein the comonomer content of said polyethylene is 0.1 to 10% mol.
6. A film as claimed in any one of claims 1 to 5  
25 wherein the density of said polyethylene is from 905 to 930 kg/m<sup>3</sup>.
7. A film as claimed in any one of claims 1 to 6 wherein the weight average molecular weight of said polyethylene is 50000 to 250000 g/mol.  
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8. A film as claimed in any one of claims 1 to 7 wherein the molecular weight distribution of said polyethylene is from 3 to 8.
9. A film as claimed in any one of claims 1 to 8  
35 wherein the MFR<sub>2</sub> of said polyethylene is 0.4 to 3 g/10 min.

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10. A film as claimed in any one of claims 1 to 9 wherein said polyethylene is blended with a further polymer.
- 5 11. A film as claimed in claim 10 wherein said further polymer is a low density polyethylene (LDPE).
12. A film as claimed in any one of claims 1 to 11 comprising a plurality of layers.
- 10 13. A film as claimed in any one of claims 1 to 12 produced by extrusion using a blow up ratio of from 2:1 to 4:1.
- 15 14. A polyethylene composition for film production, said composition comprising a polyethylene produced by polymerization catalysed by a single site catalyst and having as comonomers to ethylene at least two C<sub>4-12</sub> alpha olefins.
- 20 15. A composition as claimed in claim 14 comprising a polyethylene as defined in any one of claims 2 to 9.
- 25 16. A composition as claimed in either of claims 14 and 15 comprising a blend of said polyethylene and a further polymer.
17. A compositions as claimed in claim 16 wherein said further polymer is a low density polyethylene (LDPE).
- 30 18. A product packaged within a heat-sealed film of a polyethylene produced by polymerization catalysed by a single site catalyst and which comprises as comonomers to ethylene at least two C<sub>4-12</sub> alpha olefins.
- 35 19. A product as claimed in claim 18 wherein said film is as defined in any one of claims 2 to 13.

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20. A product as claimed in either of claims 18 and 19 being a packaged foodstuff or liquid.

5 21. The use of LDPE having a density of 925 to 932 kg/m<sup>3</sup> as an additive present at 1 to 5% wt in a polyethylene composition for film production to improve the optical characteristics of the film produced therefrom.